

### AirSTAR Analog Video Subsystem

The AirSTAR project, in order to fulfill the requirements for the Phase-V development of Beyond Visual Range operations, requires a stand-alone, analog video system for installation in the project's aircraft and ground station. This will be used for visual feedback to pilot during take-off and landing procedures as well as back-up location determination within a 3 mile radius of the ground station.

#### **ANALOG FM VIDEO TRANSMITTER:**

- Shall support standard NTSC video, HD video not required
- Shall have a ruggedized enclosure with retained connectors
- Shall supply +12Vdc @ 250mA for camera
- In-Air transmitter shall be less than 2 oz. and less than 2 cubic inches in size
- Frequency support shall be in C-band
- Specific operating frequency shall be selectable and set via pre-set hard switches and changeable via a serial comm link if hard switches are set appropriately.
- Multiple transmission power required with at least two selectable powers, one low(500mW), and one high, with the highest being no less than 2W to meet range specifications.
- Shall support two audio subcarriers at either line or mic levels
- Video latency from end-to-end shall be less than 5us
- Quote shall include any required heat dissipation hardware (heatsink, etc.)
- Quote shall include all required mating connectors for harness fabrication (video connectors, power connectors, data connectors, etc.)

#### **ANALOG FM VIDEO RECEIVER SHALL:**

- Shall support standard NTSC video, HD video not required
- Shall have a ruggedized enclosure with retained connectors
- Ground receiver shall be less than 7 oz. and less than 8 cubic inches in size
- Shall indicate received signal strength through both a chassis display and a remote query capability
- Frequency support shall be in C-band

- Specific operating frequency shall be selectable and set via pre-set hard switches and changeable via a serial comm link if hard switches are set appropriately.
- Shall support two audio subcarriers
- Video latency from end-to-end shall be less than 5us

**POWER MATING CONNECTOR SHALL:**

- All required power connectors for both the transmitter and receiver shall be included.

**AUDIO/DATA MATING CONNECTOR SHALL:**

- All required audio and data connectors for both the transmitter and receiver shall be included

**COOLING:**

- Any required heatsink solution for both the transmitter and receiver shall be included.

**SSMA TO BNC VIDEO INPUT ADAPTER SHALL:**

- At least 36" video cable shall be included.
- If video input on transmitter or video output on receiver utilizes an SSMA connector an SSMA-to-BNC adapter shall be included.

**EVALUATION CRITERIA:**

Selection and award will be made to the lowest priced, technically acceptable quoter. Technical acceptability will be determined from information submitted by the quoter which must provide sufficient details to show that the product quoted meets the Government's requirements.